



DEPARTMENT OF COMMERCE

National Oceanic and Atmospheric Administration

[RTID 0648-XC50]

Takes of Marine Mammals Incidental to Specified Activities; Taking Marine Mammals Incidental to the Parallel Thimble Shoal Tunnel Project in Virginia

AGENCY: National Marine Fisheries Service (NMFS), National Oceanic and Atmospheric Administration (NOAA), Commerce.

ACTION: Notice; issuance of renewal incidental harassment authorization.

SUMMARY: In accordance with the regulations implementing the Marine Mammal Protection Act (MMPA), as amended, notification is hereby given that NMFS has issued a Renewal incidental harassment authorization (IHA) to Chesapeake Tunnel Joint Venture (CTJV) to incidentally harass marine mammals incidental to the Parallel Thimble Shoal Tunnel Project (PTST) in Virginia Beach, Virginia.

DATES: This Renewal IHA is valid from 16 November 2022 through 15 November 2023.

FOR FURTHER INFORMATION CONTACT: Cara Hotchkin, Office of Protected Resources, NMFS, (301) 427-8401. Electronic copies of the original application, renewal request, and supporting documents (including NMFS *Federal Register* notices of the original proposed and final authorizations, and the previous IHA), as well as a list of the references cited in this document, may be obtained online at:

<https://www.fisheries.noaa.gov/permit/incidental-take-authorizations-under-marine-mammal-protection-act>. In case of problems accessing these documents, please call the contact listed above.

SUPPLEMENTARY INFORMATION:

Background

The MMPA prohibits the “take” of marine mammals, with certain exceptions. Sections 101(a)(5)(A) and (D) of the MMPA (16 U.S.C. 1361 *et seq.*) direct the Secretary of Commerce (as delegated to NMFS) to allow, upon request, the incidental, but not intentional, taking of small numbers of marine mammals by U.S. citizens who engage in a specified activity (other than commercial fishing) within a specified geographical region if certain findings are made and either regulations are proposed or, if the taking is limited to harassment, a notice of a proposed incidental take authorization is provided to the public for review.

Authorization for incidental takings shall be granted if NMFS finds that the taking will have a negligible impact on the species or stock(s) and will not have an unmitigable adverse impact on the availability of the species or stock(s) for taking for subsistence uses (where relevant). Further, NMFS must prescribe the permissible methods of taking and other “means of effecting the least practicable adverse impact” on the affected species or stocks and their habitat, paying particular attention to rookeries, mating grounds, and areas of similar significance, and on the availability of such species or stocks for taking for certain subsistence uses (referred to here as “mitigation measures”). Monitoring and reporting of such takings are also required. The meaning of key terms such as “take,” “harassment,” and “negligible impact” can be found in section 3 of the MMPA (16 U.S.C. 1362) and the agency’s regulations at 50 CFR 216.103.

NMFS’ regulations implementing the MMPA at 50 CFR 216.107(e) indicate that IHAs may be renewed for additional periods of time not to exceed one year for each reauthorization. In the notice of proposed IHA for the initial authorization, NMFS described the circumstances under which we would consider issuing a renewal for this activity, and requested public comment on a potential renewal under those circumstances. Specifically, on a case-by-case basis, NMFS may issue a one-time one-year Renewal IHA following notice to the public providing an additional 15 days for public comments

when (1) up to another year of identical or nearly identical, or nearly identical, activities as described in the Detailed Description of Specified Activities section of the initial IHA issuance notice is planned or (2) the activities as described in the Detailed Description of Specified Activities section of the initial IHA issuance notice would not be completed by the time the initial IHA expires and a renewal would allow for completion of the activities beyond that described in the **DATES** section of the initial IHA issuance, provided all of the following conditions are met:

(1) A request for renewal is received no later than 60 days prior to the needed Renewal IHA effective date (recognizing that the Renewal IHA expiration date cannot extend beyond 1 year from expiration of the initial IHA);

(2) The request for renewal must include the following:

- An explanation that the activities to be conducted under the requested Renewal IHA are identical to the activities analyzed under the initial IHA, are a subset of the activities, or include changes so minor (*e.g.*, reduction in pile size) that the changes do not affect the previous analyses, mitigation and monitoring requirements, or take estimates (with the exception of reducing the type or amount of take);
- A preliminary monitoring report showing the results of the required monitoring to date and an explanation showing that the monitoring results do not indicate impacts of a scale or nature not previously analyzed or authorized; and

(3) Upon review of the request for renewal, the status of the affected species or stocks, and any other pertinent information, NMFS determines that there are no more than minor changes in the activities, the mitigation and monitoring measures will remain the same and appropriate, and the findings in the initial IHA remain valid.

An additional public comment period of 15 days (for a total of 45 days), with direct notice by email, phone, or postal service to commenters on the initial IHA, is provided to allow for any additional comments on the proposed renewal. A description of

the renewal process may be found on our website at:

www.fisheries.noaa.gov/national/marine-mammal-protection/incidental-harassment-authorization-renewals.

History of Request

On November 16, 2021, NMFS issued an IHA to CJTV to take marine mammals incidental to the Parallel Thimble Shoal Tunnel Project in Virginia Beach, Virginia (86 FR 67024, November 24, 2021), effective from November 16, 2021 through November 15, 2022. On August 24, 2022, NMFS received an application for the renewal of that initial IHA. As described in the application for Renewal IHA, the activities for which incidental take is requested are nearly identical to, and a subset of, those covered in the initial authorization. The project has experienced delays and a portion of the work covered in the initial IHA will not be completed by the time it expires. As required, the applicant also provided a preliminary monitoring report which confirms that the applicant has implemented the required mitigation and monitoring, and which also shows that no impacts of a scale or nature not previously analyzed or authorized have occurred as a result of the activities conducted. The notice of the proposed Renewal IHA was published on October 18, 2022 (87 FR 63037).

Description of the Specified Activities and Anticipated Impacts

CTJV's planned activities include construction associated with the PTST project. Specifically, the location, timing, and nature of the activities, including the types of equipment planned for use, are identical to those described in the initial IHA. The precise details of the work planned under the Renewal IHA are nearly identical to that described in the initial IHA; the planned work includes a subset of the initial activities, as well as some additional work that involves additional piles of identical type and driving methods as initially proposed. Details of the additional work are described below. The project consists of the construction of a two-lane parallel tunnel to the west of the existing

Thimble Shoal Tunnel, connecting Portal Islands Nos. 1 and 2 of the Chesapeake Bay Bridge Tunnel (CBBT) facility which extends across the mouth of the Chesapeake Bay near Virginia Beach, Virginia. The PTST project will address existing constraints to regional mobility based on current traffic volume along the facility. Planned construction associated with the initial IHA included the driving of 764 piles over 252 days as shown below:

- 722 36-inch steel pipe piles; and
- 42 42-inch steel pipe piles.

Of these planned activities, under the initial IHA CTJV installed a total of 423 36-inch pipe piles and 26 42-inch pipe piles, a total of 449 piles. The remaining 16 42-inch piles have been eliminated from the construction plan due to a change in design. This change includes the use of 163 additional 36-inch piles instead of the originally requested 42-inch piles. Remaining piles will be installed using impact driving, vibratory driving and drilling with down-the-hole (DTH) hammers. Some piles will be removed via vibratory hammer. Accounting for work conducted under the initial IHA and the design change resulting in an increase in total piles, CTJV plans to drive 462 piles over an estimated 206 days under this Renewal IHA.

The anticipated impacts are identical to those described in the initial IHA. NMFS anticipates the take of the same five species of marine mammal (harbor seal, gray seal, bottlenose dolphin, harbor porpoise, and humpback whale) by Level A and Level B harassment incidental to underwater noise resulting from construction associated with the activities. For additional detail, please see the ***Federal Register*** notice of proposed Renewal IHA (87 FR 63037, October 18, 2022).

Detailed Description of the Activity

A detailed description of the activities to be conducted under the Renewal IHA may be found in the ***Federal Register*** notice for the proposed IHA for the Renewal

authorization (87 FR 63037, October 18, 2022) and the proposed initial IHA (86 FR 56902, October 13, 2021). The location, timing (*e.g.*, seasonality), and nature of the pile driving operations, including the type and size of piles and the methods of pile driving, are identical to those analyzed in the previous notices. The Renewal IHA would be effective for a period of one year from the date of expiration of the initial IHA.

Description of Marine Mammals

A description of the marine mammals in the area of the activities for which take is authorized here, including information on abundance, status, distribution, and hearing, may be found in the ***Federal Register*** notice for the proposed IHA for the initial authorization (86 FR 56902, October 13, 2021). Updated information regarding stock abundance was provided in the ***Federal Register*** notice announcing issuance of the initial IHA (86 FR 67024, November 24, 2021). NMFS has reviewed recent Stock Assessment Reports, information on relevant Unusual Mortality Events, and other scientific literature. NMFS has preliminarily determined that neither this nor any other new information affects which species or stocks have the potential to be affected or the pertinent information in the Description of the Marine Mammals in the Area of Specified Activities contained in the supporting documents for the initial IHA.

Potential Effects on Marine Mammals and their Habitat

A description of the potential effects of the specified activity on marine mammals and their habitat for the activities for which take is authorized may be found in the ***Federal Register*** notice for the proposed initial IHA (86 FR 56902, October 13, 2021). NMFS has reviewed the monitoring data from the initial IHA, recent Stock Assessment Reports, information on relevant UMEs, and other scientific literature, and determined that neither this nor any other new information affects our initial analysis of impacts on marine mammals and their habitat.

Estimated Take

A detailed description of the methods and inputs used to estimate take for the specified activity are found in the ***Federal Register*** notices for the proposed and final initial IHAs (86 FR 56902, October 13, 2021; 86 FR 67024, November 24, 2021). The source levels and marine mammal occurrence data applicable to this authorization remain unchanged from the initial IHA. CTJV conducted approximately 50 percent of the planned work and has replaced all remaining 42-inch piles with additional 36-inch piles. The approximate total number of operational days for this Renewal IHA is lower than the initial IHA. However, because the take numbers developed for most species for which take is authorized involve qualitative elements and because the reduction in total days would not result in a substantive decrease in the take number for bottlenose dolphin (*i.e.*, the only species for which a density-based approach to estimating take is used), we carry forward the take numbers unchanged for this Renewal IHA. The stocks taken, methods of take, and types of take remain unchanged from the previously issued IHA, as do the number of takes, which are indicated below in Table 1.

Table 1 -- Estimated Take Authorized

Species	Stock	Level A Takes	Level B Takes
Humpback whale	Gulf of Maine	--	12
Harbor porpoise	Gulf of Maine/Bay of Fundy	5	7
Bottlenose dolphin	WNA ¹ Coastal, Northern Migratory	--	43,203
	WNA Coastal, Southern Migratory	--	43,203
	NNCES ²	--	250
Harbor seal	Western North Atlantic	1,154	1,730
Gray seal	Western North Atlantic	16	24

1 – Western North Atlantic; 2 – Northern North Carolina Estuarine System

Description of Mitigation, Monitoring and Reporting Measures

The mitigation, monitoring, and reporting measures included as requirements in this authorization are identical to those included in the *Federal Register* notice announcing the issuance of the initial IHA (86 FR 67024, November 24, 2021), and the discussion of the least practicable adverse impact included in that document remains accurate. Further detail regarding the mitigation, monitoring, and reporting requirements prescribed through the IHA can be found in the notice of issuance for the initial IHA (86 FR 67024, November 24, 2021). The following measures are included in this renewal:

- Avoid direct physical interaction with marine mammals during construction activity. If a marine mammal comes within 10 m of such activity, operations must cease and vessels must reduce speed to the minimum level required to maintain steerage and safe working conditions;
- Conduct training between construction supervisors and crews and the marine mammal monitoring team and relevant CTJV staff prior to the start of all pile driving and DTH activity and when new personnel join the work, so that responsibilities, communication procedures, monitoring protocols, and operational procedures are clearly understood;
- Pile driving activity must be halted upon observation of either a species for which incidental take is not authorized or a species for which incidental take has been authorized but the authorized number of takes has been met, entering or within the harassment zone;
- CTJV will establish and implement the shutdown zones indicated in Table 2. The purpose of a shutdown zone is generally to define an area within which shutdown of the activity would occur upon sighting of a marine mammal (or in anticipation of an animal entering the defined area). Shutdown zones typically vary based on the activity type and marine mammal hearing group;

- Employ Protected Species Observers (PSOs) and establish monitoring locations as described in the Marine Mammal Monitoring Plan and Section 5 of the initial IHA. The Holder must monitor the project area to the maximum extent possible based on the required number of PSOs, required monitoring locations, and environmental conditions. For all pile driving and removal, at least one PSO must be used. The PSO will be stationed as close to the activity as possible;

- The placement of the PSOs during all pile driving and removal and DTH activities will ensure that the entire shutdown zone is visible during pile installation. Should environmental conditions deteriorate such that marine mammals within the entire shutdown zone will not be visible (*e.g.*, fog, heavy rain), pile driving and removal must be delayed until the PSO is confident marine mammals within the shutdown zone could be detected;

- Monitoring must take place from 30 minutes prior to initiation of pile driving activity through 30 minutes post-completion of pile driving activity. Pre-start clearance monitoring must be conducted during periods of visibility sufficient for the lead PSO to determine the shutdown zones clear of marine mammals. Pile driving may commence following 30 minutes of observation when the determination is made;

- If pile driving is delayed or halted due to the presence of a marine mammal, the activity may not commence or resume until either the animal has voluntarily exited and been visually confirmed beyond the shutdown zone or 15 minutes have passed without re-detection of the animal;

- CTJV must use soft start techniques when impact pile driving. Soft start requires contractors to provide an initial set of three strikes at reduced energy, followed by a 30-second waiting period, then two subsequent reduced-energy strike sets. A soft start must be implemented at the start of each day's impact pile driving and at any time following cessation of impact pile driving for a period of 30 minutes or longer; and

- Use a bubble curtain during impact and vibratory pile driving and DTH in water depths greater than 3 m and ensure that it is operated as necessary to achieve optimal performance, and that no reduction in performance may be attributable to faulty deployment. At a minimum, CTJV must adhere to the following performance standards: The bubble curtain must distribute air bubbles around 100 percent of the piling circumference for the full depth of the water column. The lowest bubble ring must be in contact with the substrate for the full circumference of the ring, and the weights attached to the bottom ring shall ensure 100 percent substrate contact. No parts of the ring or other objects shall prevent full substrate contact. Airflow to the bubblers must be balanced around the circumference of the pile. For work with interlocking pipe piles for the berm construction a special three-sided bubble curtain will be used (see initial IHA Application Appendix A).

Table 2 -- Shutdown Zones (meters) for Each Method

Method and Piles/Day	Low-Frequency Cetaceans	Mid-Frequency Cetaceans	High-Frequency Cetaceans	Phocids
DTH (3/day)	1230	50	200	150
DTH (6/day)	1950	70	200	150
Impact (4/day)	1010	40	200	150
Impact (6/day)	1320	50	200	150
Vibratory (4/day)	20	10	20	10
Impact + DTH	Use zones for each source alone			
DTH + Vibratory	1230	50	200	150
Impact + Vibratory	1320	50	200	150
Impact + DTH + DTH	1320	50	200	150
DTH + DTH+ Vibratory	1950	70	200	1050
DTH + Vibratory + Impact	1320	50	200	710

Impact + Impact + DTH	Use zones for each source alone
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Comments and Responses

NMFS received no public comments on the proposed Renewal IHA.

Determinations

The construction activities proposed by CTJV are nearly identical to those analyzed in the initial IHA, as are the method of taking and the effects of the action. The planned number of days of activity will be reduced given the completion of a substantial portion (approximately 50 percent) of the originally planned work. Additionally, the work at Portal Island No. 1 is nearly complete, with an estimated 11 days of work remaining. This significantly reduces the likelihood of three drills operating concurrently for the duration of the renewal period, thus reducing the number of days where the largest impact zones would be present. The potential effects of CTJV's activities are limited to Level A and Level B harassment in the form of auditory injury and behavioral disturbance. In analyzing the effects of the activities in the initial IHA, NMFS determined that CTJV's activities would have a negligible impact on the affected species or stocks and that the authorized take numbers of each species or stock were small relative to the relevant stocks (*e.g.*, less than one-third of the abundance of all stocks). The mitigation measures and monitoring and reporting requirements as described above are identical to the initial IHA.

NMFS has concluded that there is no new information suggesting that our analysis or findings should change from those reached for the initial IHA. This includes consideration of the estimated abundance of harbor seal decreasing slightly. Based on the information and analysis contained here and in the referenced documents, NMFS has determined the following: (1) the required mitigation measures will effect the least practicable impact on marine mammal species or stocks and their habitat; (2) the

authorized takes will have a negligible impact on the affected marine mammal species or stocks; (3) the authorized takes represent small numbers of marine mammals relative to the affected stock abundances; (4) CTJV's activities will not have an unmitigable adverse impact on taking for subsistence purposes as no relevant subsistence uses of marine mammals are implicated by this action, and; (5) appropriate monitoring and reporting requirements are included.

National Environmental Policy Act

To comply with the National Environmental Policy Act of 1969 (NEPA; 42 U.S.C. 4321 *et seq.*) and NOAA Administrative Order (NAO) 216-6A, NMFS must review our proposed action (*i.e.*, the issuance of an incidental harassment authorization) with respect to potential impacts on the human environment.

This action is consistent with categories of activities identified in Categorical Exclusion B4 (IHAs with no anticipated serious injury or mortality) of the Companion Manual for NOAA Administrative Order 216-6A, which do not individually or cumulatively have the potential for significant impacts on the quality of the human environment and for which we have not identified any extraordinary circumstances that would preclude this categorical exclusion. Accordingly, NMFS has determined that the issuance of the Renewal IHA qualifies to be categorically excluded from further NEPA review.

Endangered Species Act

Section 7(a)(2) of the ESA (16 U.S.C. 1531 *et seq.*) requires that each Federal agency insure that any action it authorizes, funds, or carries out is not likely to jeopardize the continued existence of any endangered or threatened species or result in the destruction or adverse modification of designated critical habitat. To ensure ESA compliance for the issuance of IHAs, NMFS consults internally whenever we propose to authorize take for endangered or threatened species.

No incidental take of ESA-listed species is proposed for authorization or expected to result from this activity. Therefore, NMFS has determined that formal consultation under section 7 of the ESA is not required for this action.

Renewal

NMFS has issued a Renewal IHA to CTJV for the take of marine mammals incidental to conducting pile driving activities at the Thimble Shoal Tunnel in Virginia Beach, Virginia between 16 November 2022 and 15 November 2023.

Dated: November 9, 2022.

Catherine Marzin,

Acting Director, Office of Protected Resources,

National Marine Fisheries Service.

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